

Method and Apparatus for Automated Tomography Inspection

Abstract of the Disclosure

[046] A method for rapid automated inspection of manufactured objects uses tomography to acquire projections of an object and then compares those projections to similar projections obtained from a standard. Variance projections of the variations between the object and standard projections for particular perspectives are generated. Variant portions of the variance projections are identified and used to generate a 3D reconstruction of just the variations between the object and the standard. The 3D reconstruction can then be evaluated to qualify the object. An apparatus of the invention comprises an imaging system in communication with a computer system configured to perform the method.